

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|------------------------|------------------|---------|------------------|
| L1 | 4 | okase.in. and 392/418.ccls. | US-PGPUB; USPAT | OR | ON | 2005/04/04 14:00 |
| L2 | 16 | ohkase.in. | US-PGPUB; USPAT | OR | ON | 2005/04/04 14:00 |
| S1 | 8 | "5562800".URPN. | USPAT | OR | ON | 2004/08/09 09:03 |
| S2 | 2 | "6178660".URPN. | USPAT | OR | ON | 2004/08/09 09:13 |
| S3 | 1 | "6467491".URPN. | USPAT | OR | ON | 2004/08/09 09:14 |
| S4 | 6 | ("5228206" "5972161" "6143081" "6178660" "6204120" "6232248").PN. | USPAT | OR | ON | 2004/08/09 09:14 |
| S5 | 13 | ("4795299" "4917556" "5228206" "5423971" "5529657" "5611861" "5755938" "5759334" "5855675" "5863170" "5880924" "5882165" "5886864").PN. | USPAT | OR | ON | 2004/08/09 09:15 |
| S6 | 15 | ("5512320" "5609689" "5902088" "5909994" "5944857" "5997588" "6048154" "6059893" "6110232" "6113698" "6140256" "6202318" "6235656" "6338626" "6435868").PN. | USPAT | OR | ON | 2004/08/09 09:21 |
| S7 | 117 | 118/719.ccls. and ((gate valve slit) with passage\$3) | US-PGPUB; USPAT | OR | ON | 2003/07/24 16:11 |
| S8 | 369 | 414/939.ccls. and ((gate valve slit)) | US-PGPUB; USPAT | OR | ON | 2004/02/16 14:25 |
| S9 | 1403 | ((118/719) or (156/345.31) or (156/345.32)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/07/24 16:14 |
| S10 | 405 | (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((gate valve slit) same ((transfer\$4 transport\$4) with chamber)) | US-PGPUB; USPAT | OR | ON | 2003/07/24 16:58 |
| S11 | 241 | 414/939.ccls. and ((gate valve slit) same ((transfer\$4 transport\$4) with chamber)) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:04 |
| S12 | 6 | ("3761709" "3874525" "3958124" "4227080" "4749868" "4763005").PN. | USPAT | OR | ON | 2003/07/24 16:24 |
| S13 | 7 | "4948979".URPN. | USPAT | OR | ON | 2003/07/24 16:24 |
| S14 | 318 | (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((gate shutter slit) same ((transfer\$4 transport\$4) with chamber)) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:02 |
| S15 | 247 | (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((gate shutter slit) same ((transfer\$4 transport\$4) with chamber))) not (414/939.ccls. and ((gate valve slit) same ((transfer\$4 transport\$4) with chamber))) | US-PGPUB; USPAT | OR | ON | 2003/07/24 16:59 |
| S16 | 1746 | ((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/07/25 11:31 |
| S17 | 32 | (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (shutter same ((transfer\$4 transport\$4) with chamber)) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:09 |
| S18 | 80 | (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (shutter with chamber) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:09 |
| S19 | 54 | (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (shutter with chamber)) not (((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (shutter same ((transfer\$4 transport\$4) with chamber))) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:10 |
| S20 | 11 | (((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.) and ((shutter gate valve slit) same liner) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:18 |
| S21 | 8128 | ((shutter gate valve slit) same liner) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:18 |
| S22 | 1572 | ((shutter gate valve slit) same liner same chamber) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:18 |
| S23 | 118 | ((shutter (valve with (gate slit))) same liner same chamber) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:20 |

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| S24 | 19 | ((shutter (valve with (gate slit))) same liner same chamber) | EPO; JPO; DERWENT | OR | ON | 2003/07/24 17:24 |
| S25 | 1 | ("6192827").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/07/24 17:24 |
| S26 | 41 | (US-6245152-\$ or US-6093252-\$ or US-5968274-\$ or US-5474641-\$ or US-5462603-\$ or US-5397395-\$ or US-5374313-\$ or US-5314574-\$ or US-4927484-\$ or US-4566403-\$ or US-6403924-\$ or US-6309161-\$ or US-6287386-\$ or US-6267545-\$ or US-6095741-\$ or US-5997588-\$ or US-5951770-\$ or US-5934856-\$ or US-5556147-\$ or US-5636963-\$ or US-5609689-\$ or US-5562800-\$ or US-5445491-\$ or US-5364219-\$ or US-5310410-\$ or US-5303671-\$).did. or (US-5145303-\$ or US-5076205-\$ or US-4990047-\$ or US-4948979-\$ or US-4503807-\$ or US-5112185-\$ or US-5065698-\$ or US-4800174-\$ or US-4709655-\$ or US-6192827-\$).did. or (US-20020031420-\$ or US-20030013315-\$).did. or (JP-2000114179-\$).did. or (WO-200229877-\$ or US-6192827-\$).did. | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/07/24 17:55 |
| S27 | 1 | ((US-6245152-\$ or US-6093252-\$ or US-5968274-\$ or US-5474641-\$ or US-5462603-\$ or US-5397395-\$ or US-5374313-\$ or US-5314574-\$ or US-4927484-\$ or US-4566403-\$ or US-6403924-\$ or US-6309161-\$ or US-6287386-\$ or US-6267545-\$ or US-6095741-\$ or US-5997588-\$ or US-5951770-\$ or US-5934856-\$ or US-5556147-\$ or US-5636963-\$ or US-5609689-\$ or US-5562800-\$ or US-5445491-\$ or US-5364219-\$ or US-5310410-\$ or US-5303671-\$).did. or (US-5145303-\$ or US-5076205-\$ or US-4990047-\$ or US-4948979-\$ or US-4503807-\$ or US-5112185-\$ or US-5065698-\$ or US-4800174-\$ or US-4709655-\$ or US-6192827-\$).did. or (US-20020031420-\$ or US-20030013315-\$).did. or (JP-2000114179-\$).did. or (WO-200229877-\$ or US-6192827-\$).did.) and (gas with curtain) | US-PGPUB; USPAT | OR | ON | 2003/07/24 17:49 |
| S28 | 11 | ((US-6245152-\$ or US-6093252-\$ or US-5968274-\$ or US-5474641-\$ or US-5462603-\$ or US-5397395-\$ or US-5374313-\$ or US-5314574-\$ or US-4927484-\$ or US-4566403-\$ or US-6403924-\$ or US-6309161-\$ or US-6287386-\$ or US-6267545-\$ or US-6095741-\$ or US-5997588-\$ or US-5951770-\$ or US-5934856-\$ or US-5556147-\$ or US-5636963-\$ or US-5609689-\$ or US-5562800-\$ or US-5445491-\$ or US-5364219-\$ or US-5310410-\$ or US-5303671-\$).did. or (US-5145303-\$ or US-5076205-\$ or US-4990047-\$ or US-4948979-\$ or US-4503807-\$ or US-5112185-\$ or US-5065698-\$ or US-4800174-\$ or US-4709655-\$ or US-6192827-\$).did. or (US-20020031420-\$ or US-20030013315-\$).did. or (JP-2000114179-\$).did. or (WO-200229877-\$ or US-6192827-\$).did.) and (vacuum with transfer with chamber) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/07/24 18:12 |
| S29 | 458 | 118/719.ccls. and (ensur\$4 vacuum with transfer with chamber) | US-PGPUB; USPAT; JPO; DERWENT | OR | OFF | 2003/07/24 18:12 |
| S30 | 220 | 118/719.ccls. and (maintain\$3 with ensur\$4 vacuum with transfer with chamber) | US-PGPUB; USPAT | OR | OFF | 2003/07/24 18:13 |
| S31 | 47 | 118/719.ccls. and (maintain\$3 with ensur\$4 vacuum with transfer with chamber with impurities) | US-PGPUB; USPAT | OR | OFF | 2003/07/24 18:14 |
| S32 | 34 | 118/719.ccls. and (maintain\$3 with vacuum with transfer with chamber) | US-PGPUB; USPAT | OR | OFF | 2003/07/24 18:19 |
| S33 | 2 | 118/719.ccls. and (impurit\$3 with vacuum with transfer with chamber.) | US-PGPUB; USPAT | OR | OFF | 2003/07/24 18:19 |
| S34 | 3 | (("6352611") or ("5680013") or ("6123791")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/07/25 10:11 |

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|-----|------|---|------------------------|----|-----|------------------|
| S38 | 0 | 10/132,767 | US-PGPUB; USPAT | OR | ON | 2003/07/25 11:23 |
| S39 | 1746 | ((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2003/07/25 11:31 |
| S40 | 17 | (((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.) and (((inert gas) with (curtain)) same (vacuum evacuat\$3 exhaust\$3)) | US-PGPUB; USPAT | OR | ON | 2003/07/25 11:42 |
| S41 | 70 | (transfer\$4 with chamber) and (((inert gas) with (curtain)) same (vacuum evacuat\$3 exhaust\$3)) | US-PGPUB; USPAT | OR | ON | 2003/07/25 11:43 |
| S42 | 60 | ((transfer\$4 with chamber) and (((inert gas) with (curtain)) same (vacuum evacuat\$3 exhaust\$3))) not (((118/719) or (414/939) or (156/345.31) or (156/345.32)).CCLS.) and (((inert gas) with (curtain)) same (vacuum evacuat\$3 exhaust\$3))) | US-PGPUB; USPAT | OR | ON | 2003/07/25 11:44 |
| S43 | 13 | "5592581".URPN. | USPAT | OR | ON | 2003/07/25 11:49 |
| S44 | 8 | ("4533820" "5095192" "5108792" "5179677" "5187771" "5252132" "5314541" "5418885").PN. | USPAT | OR | ON | 2003/07/25 11:51 |
| S45 | 25 | ("4438723" "4462332" "4480585" "4485125" "4519339" "4677738" "4717586" "4728528" "4771015" "4772486" "4772570" "4778692" "4784874" "4801468" "4818563" "4830890" "4842897" "4851302" "4853251" "4873125" "4913928" "4951602" "4971832" "5266116" "5382531").PN. | USPAT | OR | ON | 2004/02/16 13:44 |
| S46 | 38 | "4951602".URPN. | USPAT | OR | ON | 2004/02/16 13:49 |
| S47 | 0 | "6309161".URPN. | USPAT | OR | ON | 2004/02/16 13:56 |
| S48 | 4 | ("5944857" "6042623" "6048154" "6059507").PN. | USPAT | OR | ON | 2004/02/16 13:56 |
| S49 | 2 | ("4477311" "4587002").PN. | USPAT | OR | ON | 2004/02/16 14:03 |
| S50 | 21 | "4587002".URPN. | USPAT | OR | ON | 2004/02/16 14:06 |
| S51 | 7 | "5340454".URPN. | USPAT | OR | ON | 2004/02/16 14:08 |
| S52 | 13 | ("4795299" "4917556" "5228206" "5423971" "5529657" "5611861" "5755938" "5759334" "5855675" "5863170" "5880924" "5882165" "5886864").PN. | USPAT | OR | ON | 2004/02/16 14:22 |
| S53 | 115 | 414/221.ccls. | US-PGPUB; USPAT | OR | ON | 2004/02/16 14:29 |
| S54 | 126 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and ((bottom under underneath below) with (gas) with (purge curtain inert)) | US-PGPUB; USPAT | OR | ON | 2004/02/16 15:54 |
| S55 | 10 | "5997588".URPN. | USPAT | OR | ON | 2004/02/16 15:33 |
| S56 | 1 | "4624738".PN. | USPAT | OR | OFF | 2004/02/16 15:39 |
| S57 | 13 | ("4209357" "4503807" "4624738" "4718975" "4816638" "4869801" "5044311" "5236509" "5620560" "5997588" "5998766" "6089763" "6488824").PN. | USPAT | OR | ON | 2004/02/16 15:39 |
| S58 | 63 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and (lower with (gas) with (purge curtain inert)) | US-PGPUB; USPAT | OR | ON | 2004/02/16 15:55 |
| S59 | 5 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and (lower with (gas) with (curtain)) | US-PGPUB; USPAT | OR | ON | 2004/02/17 10:50 |
| S60 | 9 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and ((above below under underneath) with (gas) with (curtain)) | US-PGPUB; USPAT | OR | ON | 2004/02/16 15:56 |
| S61 | 1 | "06185672" | JPO; DERWENT; IBM_TDB | OR | ON | 2004/02/16 16:19 |
| S62 | 2 | "11195649" | JPO; DERWENT; IBM_TDB | OR | ON | 2004/02/16 16:22 |
| S63 | 2 | "2000357678" | JPO; DERWENT; IBM_TDB | OR | ON | 2004/02/16 16:29 |

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|-----|-----|---|------------------------|----|-----|------------------|
| S64 | 21 | ("20020185067" or ("3618919") or ("4289061") or ("4438724") or ("4545136") or ("5172849") or ("5223113") or ("5626936") or ("5640936") or ("5640751") or ("5693288") or ("5746434") or ("5769952") or ("6045620") or ("6089543") or ("6200415") or ("6263829") or ("6280584") or ("6347918") or ("6506254") or ("20020185067") or ("20020195201")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/02/16 16:50 |
| S65 | 1 | "3618919".URPN. | USPAT | OR | ON | 2004/02/16 16:41 |
| S66 | 4 | ("1336499" "2269645" "3041056" "3270655").PN. | USPAT | OR | ON | 2004/02/16 16:41 |
| S67 | 2 | "63256460" | EPO; JPO; DERWENT | OR | ON | 2004/02/16 16:50 |
| S68 | 2 | "08034678" | EPO; JPO; DERWENT | OR | ON | 2004/02/16 16:50 |
| S69 | 3 | "2001082682" | EPO; JPO; DERWENT | OR | ON | 2004/02/16 16:51 |
| S70 | 2 | "2001261375" | EPO; JPO; DERWENT | OR | ON | 2004/02/16 16:51 |
| S71 | 235 | ((gas inert purge) with (gate curtain)) with downstream | US-PGPUB; USPAT | OR | ON | 2004/02/16 17:29 |
| S72 | 82 | ((gas inert purge) with (gate curtain)) with downstream) | EPO; JPO; DERWENT | OR | ON | 2004/02/16 17:36 |
| S73 | 4 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and (((gas inert purge) with (gate curtain)) with downstream) | US-PGPUB; USPAT | OR | ON | 2004/02/16 17:31 |
| S74 | 29 | (substrate) and (((gas inert purge) with (gate curtain)) with downstream) | US-PGPUB; USPAT | OR | ON | 2004/02/16 17:36 |
| S75 | 1 | ("4313254").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/02/16 17:48 |
| S76 | 3 | gas with curtain with upper with lower with (perpendicular orthogonan normal) | US-PGPUB; USPAT | OR | ON | 2004/02/16 20:01 |
| S77 | 3 | gas with curtain with upper with lower with (perpendicular\$4 orthogonan\$4 normal\$4) | US-PGPUB; USPAT | OR | ON | 2004/02/16 18:09 |
| S78 | 3 | (inert purge gas) with curtain with upper with lower with (perpendicular\$4 orthogonan\$4 normal\$4) | US-PGPUB; USPAT | OR | ON | 2004/02/16 18:10 |
| S79 | 0 | (inert purge gas) with curtain with upper with lower with (perpendicular\$4 orthogonan\$4 normal\$4) | EPO; JPO; DERWENT | OR | ON | 2004/02/16 18:10 |
| S80 | 48 | (inert purge gas) with curtain with upper with lower | EPO; JPO; DERWENT | OR | ON | 2004/02/16 18:10 |
| S81 | 84 | gas with curtain with upper with lower | US-PGPUB; USPAT | OR | ON | 2004/02/16 18:52 |
| S82 | 8 | "5125556".URPN. | USPAT | OR | ON | 2004/02/16 18:26 |
| S83 | 10 | "5997588".URPN. | USPAT | OR | ON | 2004/02/16 18:31 |
| S84 | 48 | ("3314393" "3635757" "3659551" "3660179" "3672948" "3696779" "3785853" "3893876" "3925118" "4048955" "4116733" "4438723" "4438724" "4450786" "4459104" "4480585" "4500407" "4537795" "4543059" "4682565" "4803948" "4821674" "4823480" "4824309" "4836138" "4949669" "4950156" "5064367" "5080549" "5105762" "5147168" "5156521" "5259883" "5266116" "5312490" "5316794" "5344542" "5352293" "5363872" "5370736" "5374313" "5382127" "5388944" "5388945" "5390785" "5411358" "5411593" "5425812").PN. | USPAT | OR | ON | 2004/02/16 18:32 |
| S85 | 10 | "3314393".URPN. | USPAT | OR | ON | 2004/02/16 18:33 |
| S86 | 31 | "4048955".URPN. | USPAT | OR | ON | 2004/02/16 18:36 |
| S87 | 0 | osamu-takeuchui.in. | US-PGPUB; USPAT | OR | ON | 2004/02/16 18:53 |
| S88 | 0 | osamu-takeuchui.in. | EPO; JPO; DERWENT | OR | ON | 2004/02/16 18:53 |

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| S89 | 0 | osamu-takeuchi.in. | US-PGPUB; USPAT | OR | ON | 2004/02/16 18:53 |
| S90 | 0 | osamu-takeuchi.in. | EPO; JPO; DERWENT | OR | ON | 2004/02/16 18:53 |
| S91 | 318 | takeuchi-osamu.in. | EPO; JPO; DERWENT | OR | ON | 2004/02/16 18:53 |
| S92 | 29 | takeuchi-osamu.in. | US-PGPUB; USPAT | OR | ON | 2004/02/16 18:53 |
| S93 | 10 | ((inert purge gas) with curtain) same (gate with valve) | US-PGPUB; USPAT | OR | ON | 2004/02/16 19:18 |
| S94 | 8 | ("4533820" "5095192" "5108792" "517967" "5187771" "5252132" "5314541" "5418885").PN | USPAT | OR | ON | 2004/02/16 19:20 |
| S95 | 15 | "5592581".URPN. | USPAT | OR | ON | 2004/02/16 19:21 |
| S96 | 12 | ((inert purge gas) with curtain) same (gate with valve) | EPO; JPO; DERWENT | OR | ON | 2004/02/16 19:37 |
| S97 | 1 | ("5592581").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/02/17 10:47 |
| S98 | 2 | dando-ross.in. carpenter-craig.in. campbell-philip.in. | US-PGPUB; USPAT | OR | ON | 2005/03/29 10:25 |
| S99 | 30 | dando-ross-s.in. carpenter-craig.in. campbell-philip.in. | US-PGPUB; USPAT | OR | ON | 2005/03/29 10:26 |
| S100 | 50 | dando-ross-s.in. carpenter-craig-m.in. campbell-philip-h.in. | US-PGPUB; USPAT | OR | ON | 2004/02/16 20:02 |
| S101 | 1430 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and (subatmospheric vacuum) | US-PGPUB; USPAT | OR | ON | 2004/02/17 10:50 |
| S102 | 459 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and ((subatmospheric vacuum) with transfer\$4 with chamber) | US-PGPUB; USPAT | OR | ON | 2004/02/17 10:53 |
| S103 | 185 | (c23c016\$.ipc.) and ((subatmospheric vacuum) with transfer\$4 with chamber) | EPO; JPO; DERWENT | OR | ON | 2004/02/17 10:53 |
| S104 | 188 | (414/939.ccls. 118/719.ccls. 156/345.31.ccls. 156/345.32.ccls. 414/221.ccls.) and ((subatmospheric vacuum) with (transfer\$4 adj chamber)) | US-PGPUB; USPAT | OR | ON | 2004/02/17 10:53 |
| S105 | 59 | (c23c016\$.ipc.) and ((subatmospheric vacuum) with (transfer\$4 adj chamber)) | EPO; JPO; DERWENT | OR | ON | 2004/02/17 11:13 |
| S106 | 2 | "2002198412" | EPO; JPO; DERWENT | OR | ON | 2004/02/17 11:15 |
| S107 | 2 | 1994-213066 | EPO; JPO; DERWENT | OR | ON | 2004/02/17 11:15 |
| S108 | 2 | "06151558" | EPO; JPO; DERWENT | OR | ON | 2004/02/17 11:15 |
| S109 | 1 | ("5592581").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/19 13:13 |
| S110 | 1 | ("6673196").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/19 13:55 |
| S111 | 1 | ("6673196").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/19 13:57 |
| S112 | 7 | ((valve gate) with (purg\$3 inert) with gas with (upstream downstream)) and ((transfer\$4 convey\$3 transport\$3) with chamber) | EPO; JPO; DERWENT | OR | ON | 2004/07/19 17:47 |
| S113 | 84 | ((valve gate) with (purg\$3 inert) with gas with (upstream downstream)) and ((transfer\$4 convey\$3 transport\$3) with chamber) | US-PGPUB; USPAT | OR | ON | 2004/07/19 14:28 |

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|----------|-----|--|------------------------------|----|-----|------------------|
| S11 4 | 1 | ("5449491").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/19 14:28 |
| S11 5 | 1 | ("5445491").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/19 14:28 |
| S11 6 | 37 | "5445491".URPN. | USPAT | OR | ON | 2004/07/19 14:29 |
| S11 7 | 8 | "5562800".URPN. | USPAT | OR | ON | 2004/07/19 15:16 |
| S11 8 | 2 | ("4477311" "4587002").PN. | USPAT | OR | ON | 2004/07/19 15:23 |
| S11 9 | 13 | ("4533410" "4951601" "5013683" "5281274" "5298452" "5310698" "5527733" "5793109" "5916365" "6048781" "6056849" "6207005" "6319553" "2002/0108714").PN. | USPAT | OR | ON | 2004/07/19 15:31 |
| S12 0 | 0 | "6541353".URPN. | USPAT | OR | ON | 2004/07/19 15:34 |
| S12 1 | 4 | ("3575398").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/19 15:55 |
| S12 2 | 11 | "3575398".URPN. | USPAT | OR | ON | 2004/07/19 15:45 |
| S12 3 | 7 | "4898319".URPN. | USPAT | OR | ON | 2004/07/19 15:52 |
| S12 4 | 8 | ("0549235" "1357790" "1851831" "3039407" "3142272" "3270655" "3356541" "3387600").PN. | USPAT | OR | ON | 2004/07/19 15:54 |
| S12 5 | 390 | ((gate shutter valve) with (purg\$3 inert curtain) with (passage\$3 between)) and ((transfer\$4 transport\$4 convey\$4) with chamber) and (deposit\$3 coat\$3 etch\$3 sputter\$3 "cvd") | US-PGPUB; USPAT | OR | ON | 2004/07/19 16:16 |
| S12 6 | 3 | "04063414" | EPO; JPO; DERWENT | OR | ON | 2004/07/19 16:20 |
| S12 7 | 2 | "62147726" | EPO; JPO; DERWENT | OR | ON | 2004/07/19 16:26 |
| S12 8 | 0 | (typically conventionally) with (semiconductor) with processing with vacuum | EPO; JPO; DERWENT | OR | ON | 2004/07/19 16:26 |
| S12 9 | 144 | (typically conventionally) with (semiconductor) with processing with vacuum | US-PGPUB; USPAT | OR | ON | 2004/07/19 16:27 |
| S13 0 | 83 | ((typically conventionally) with (semiconductor) with processing with vacuum) and ("chemical vapor deposition" "cvd") | US-PGPUB; USPAT | OR | ON | 2004/07/19 17:46 |
| S13 1 | 64 | "4871417".URPN. | USPAT | OR | ON | 2004/07/19 17:26 |
| S13 2 | 8 | ("3041225" "3594230" "3990462" "4028135" "4183780" "4510176" "4591485" "4682614").PN. | USPAT | OR | ON | 2004/07/19 17:42 |
| S13 3 | 0 | ((gas) with (curtain purg\$3 inert) with (gate valve slit)) and ((transfer\$4 convey\$3 transport\$3) with passage\$3) and (118/715-733.ccls. 156/345.\$.ccls. 204/298.\$.ccls. 414/935-941.ccls.) | EPO; JPO; DERWENT | OR | ON | 2004/07/19 17:49 |
| S13 4 | 62 | ((gas) with (curtain purg\$3 inert) with (gate valve slit)) and ((transfer\$4 convey\$3 transport\$3) with passage\$3) and (118/715-733.ccls. 156/345.\$.ccls. 204/298.\$.ccls. 414/935-941.ccls.) | US-PGPUB; USPAT | OR | ON | 2004/07/19 19:16 |
| S13 5 | 40 | ((gas) with (curtain purg\$3 inert) with (gate valve slit)) and ((transfer\$4 convey\$3 transport\$3) with passage\$3) and (c23c016\$.ipc.) | US-PGPUB; USPAT | OR | ON | 2004/07/20 11:17 |
| S13 6 | 4 | ("4636401" "4960720" "5478780" "5670798").PN. | USPAT | OR | ON | 2004/07/19 18:17 |
| S13 7 | 1 | "5940684".URPN. | USPAT | OR | ON | 2004/07/19 18:18 |

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|----------|----|--|------------------------------|----|-----|------------------|
| S13 8 | 4 | "6016611".URPN. | USPAT | OR | ON | 2004/07/19 18:28 |
| S13 9 | 1 | "5516367".PN. | USPAT | OR | ON | 2004/07/19 18:29 |
| S14 0 | 0 | "20030230322".URPN. | USPAT | OR | ON | 2004/07/19 19:07 |
| S14 1 | 15 | ("5512320" "5609689" "5902088" "5909994" "5944857" "5997588" "6048154" "6059893" "6110232" "6113698" "6140256" "6202318" "6235656" "6338626" "6435868"). PN. | USPAT | OR | ON | 2004/07/19 19:09 |
| S14 2 | 0 | "6672864".URPN. | USPAT | OR | ON | 2004/07/19 19:10 |
| S14 3 | 1 | ("6016611").PN. | US-PGPUB, USPAT, USOCR | OR | OFF | 2004/07/20 09:28 |
| S14 4 | 4 | "6016611".URPN. | USPAT | OR | ON | 2004/07/20 09:28 |
| S14 5 | 1 | "5516367".PN. | USPAT | OR | ON | 2004/07/20 09:31 |
| S14 6 | 44 | (((gas) with (curtain purg\$3 inert) with (gate valve slit)) and ((transfer\$4 convey\$3 transport\$3) with passage\$3) and (118/715-733.ccls. 156/345.\$.ccls. 204/298.\$.ccls. 414/935-941. ccls.)) not (((gate shutter valve) with (purg\$3 inert curtain) with (passage\$3 between)) and ((transfer\$4 transport\$4 convey\$4) with chamber) and (deposit\$3 coat\$3 etch\$3 sputter\$3 "cvd")) | US-PGPUB; USPAT | OR | ON | 2004/07/20 09:36 |
| S14 7 | 2 | ((gas) with (curtain purg\$3 inert) with (gate valve slit)) and ((transfer\$4 convey\$3 transport\$3) with passage\$3) and (c23c016\$.ipc.) | EPO; JPO; DERWENT | OR | ON | 2004/07/20 12:56 |
| S14 8 | 3 | ("5013385" "5076205" "5302209").PN. | USPAT | OR | ON | 2004/07/20 10:08 |
| S14 9 | 13 | "5981399".URPN. | USPAT | OR | ON | 2004/07/20 10:09 |
| S15 0 | 1 | ("5374313").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/20 10:19 |
| S15 1 | 3 | ("5013385" "5076205" "5302209").PN. | USPAT | OR | ON | 2004/07/20 11:09 |
| S15 2 | 12 | ("4512391" "5002010" "5186718" "5474410" "5509464" "5512320" "5516367" "5607009" "5609689" "5698989" "5707500" "5837555").PN. | USPAT | OR | ON | 2004/07/20 11:13 |
| S15 3 | 0 | "6602348".URPN. | USPAT | OR | ON | 2004/07/20 11:14 |
| S15 4 | 2 | ((gas) with (curtain purg\$3 inert) with (gate valve slit)) and ((transfer\$4 convey\$3 transport\$3) with passage\$3) and (c23c016\$.ipc.) | EPO; JPO; DERWENT | OR | ON | 2004/07/20 11:29 |
| S15 5 | 1 | ("5562800").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/20 13:15 |
| S15 6 | 0 | karla and moore and (slit with valve with passage\$3) | US-PGPUB; USPAT | OR | ON | 2004/07/20 13:16 |
| S15 7 | 5 | karla and moore and (slit with valve) | US-PGPUB; USPAT | OR | ON | 2004/07/20 13:17 |
| S15 8 | 61 | karla and moore | US-PGPUB; USPAT | OR | ON | 2004/07/20 15:08 |
| S15 9 | 64 | kawamura.in. and (transfer\$4 with chamber) | US-PGPUB; USPAT | OR | ON | 2004/07/20 15:51 |
| S16 0 | 1 | ("6192827").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/07/20 15:51 |

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|----------|-----|--|------------------------------|----|-----|------------------|
| S16 4 | 4 | okase.in. and 392/418.ccls. | US-PGPUB; USPAT | OR | ON | 2005/04/04 13:34 |
| S16 5 | 11 | ("5520742" "5534073" "5578132" "5581874" "5592581" "5628859" "5647945" "5650082" "5681614" "5683518" "5710407").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/03/29 01:24 |
| S16 6 | 21 | ("6111225").URPN. | USPAT | OR | ON | 2005/03/29 01:45 |
| S16 7 | 21 | ("6111225").URPN. | USPAT | OR | ON | 2005/03/29 01:48 |
| S16 8 | 9 | ("4535228" "4780174" "5194401" "5427625" "5536918" "5592581" "5651670" "5772770" "5777300").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/03/29 01:49 |
| S16 9 | 30 | ("5194401").URPN. | USPAT | OR | ON | 2005/03/29 01:52 |
| S17 0 | 30 | ("5194401").URPN. | USPAT | OR | ON | 2005/03/29 05:31 |
| S17 1 | 21 | ("6111225").URPN. | USPAT | OR | ON | 2005/03/29 08:03 |
| S17 2 | 12 | ("20010054484" "20040007188" "4871417" "4949669" "4951802" "5498292" "5538317" "5940684" "6016611" "6309161" "6562141" "6602346" "6638672" "6673196").PN. | USPAT | OR | ON | 2005/03/29 08:12 |
| S17 3 | 37 | ((("3618919") or ("4289061") or ("4438724") or ("4545136") or ("4948979") or ("5076205") or ("5172849") or ("5223113") or ("5364210") or ("5445491") or ("5562800") or ("5626936") or ("5640751") or ("5592581") or ("5693288") or ("5746434") or ("5769952") or ("5820641") or ("5827370") or ("5997588") or ("6045620") or ("6089543") or ("6174366") or ("6178660") or ("6192827") or ("6193802") or ("6194628") or ("6197119") or ("6200415") or ("6255222") or ("6263829") or ("6280584") or ("6347618") or ("6506254") or ("6541353") or ("20020185067") or ("20020195201")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/03/29 08:25 |
| S17 4 | 4 | 10/082,599 | US-PGPUB; USPAT | OR | ON | 2005/03/29 08:26 |
| S17 5 | 5 | 10/132,003 | US-PGPUB; USPAT | OR | ON | 2005/03/29 08:26 |
| S17 6 | 4 | 10/365,085 | US-PGPUB; USPAT | OR | ON | 2005/03/29 08:26 |
| S17 7 | 5 | ("5640751").URPN. | USPAT | OR | ON | 2005/03/29 08:37 |
| S17 8 | 2 | "63256460" | EPO; JPO; DERWENT | OR | ON | 2005/03/29 08:38 |
| S17 9 | 2 | "08034678" | EPO; JPO; DERWENT | OR | ON | 2005/03/29 08:38 |
| S18 0 | 3 | "2001082682" | EPO; JPO; DERWENT | OR | ON | 2005/03/29 08:38 |
| S18 1 | 2 | "2001261375" | EPO; JPO; DERWENT | OR | ON | 2005/03/29 08:40 |
| S18 2 | 163 | (substrate wafer semiconductor workpiece) with (shield\$3 lin\$3) with (protect\$3 prevents\$3 prohibits\$3 cover\$3) with (wall chamber side\$1wall) with (hole opening) | EPO; JPO; DERWENT | OR | ON | 2005/03/29 08:41 |
| S18 3 | 341 | (substrate wafer semiconductor workpiece) with (shield\$3 lin\$3) with (protect\$3 prevents\$3 prohibits\$3 cover\$3) with (wall chamber side\$1wall) with (hole opening) | US-PGPUB; USPAT | OR | ON | 2005/03/29 08:42 |
| S18 4 | 81 | (substrate wafer semiconductor workpiece) with (shield\$3 lin\$3) with (protect\$3 prevents\$3 prohibits\$3 cover\$3) with (wall chamber side\$1wall) with (hole opening) with (cross\$1section area siz\$3 shap\$3) | US-PGPUB; USPAT | OR | ON | 2005/03/29 08:45 |
| S18 5 | 31 | (substrate wafer semiconductor workpiece) with (shield\$3 lin\$3) with (protect\$3 prevents\$3 prohibits\$3 cover\$3) with (wall chamber side\$1wall) with (hole opening) with (cross\$1section area siz\$3 shap\$3) | EPO; JPO; DERWENT | OR | ON | 2005/03/29 08:42 |

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| S18 6 | 2 | dando-ross.in. carpenter-craig.in. campbell-philip.in. | US-PGPUB; USPAT | OR | ON | 2005/03/29 10:25 |
| S18 7 | 60 | dando-ross.s.in.:carpenter-craig.in. campbell-philip.in. | US-PGPUB; USPAT | OR | ON | 2005/03/29 10:26 |
| S18 8 | 15 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (insulat\$4 with teflon) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:04 |
| S18 9 | 1 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (interface with teflon) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:05 |
| S19 0 | 1 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (interfac\$4 with teflon) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:05 |
| S19 1 | 0 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (interfac\$4 with polytetrafluoroethylene) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:05 |
| S19 2 | 1 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (interfac\$4 with polytetrafluoroethylene) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:06 |
| S19 3 | 2 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and (interfac\$4 with (polytetrafluoroethylene "PTFE" teflon)) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:06 |
| S19 4 | 134 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((polytetrafluoroethylene "PTFE" teflon)) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:37 |
| S19 5 | 95 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((polytetrafluoroethylene "PTFE" teflon) and transfer\$4) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:07 |
| S19 6 | 9 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((polytetrafluoroethylene "PTFE" teflon) same transfer\$4) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:09 |
| S19 7 | 3 | ((118/719) or (156/345.31) or (156/345.32)).CCLS.) and ((polytetrafluoroethylene "PTFE" teflon) same gate) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:09 |
| S19 8 | 635 | ("insulating plate") and ((polytetrafluoroethylene "PTFE" teflon)) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:37 |
| S19 9 | 50 | ("insulating plate") with ((polytetrafluoroethylene "PTFE" teflon)) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:37 |
| S20 0 | 25 | (wafer substrate semiconductor workpiece) and ((insulating plate") with (polytetrafluoroethylene "PTFE" teflon)) | US-PGPUB; USPAT | OR | ON | 2005/03/29 12:38 |